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APPLICATION NO	. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,695	10/531,695 04/18/2005		Phillip Aaron Junkersfeld	PU020442	3900
24498	7590	07/03/2006		EXAMINER	
		ISING INC.	TRAN, TRANG U		
	PATENT OPERATIONS PO BOX 5312				PAPER NUMBER
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				DATE MAILED: 07/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/531,695	JUNKERSFELD ET AL.
Office Action Summary	Examiner	Art Unit
	Trang U. Tran	2622
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versions  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).
Status		
<ol> <li>Responsive to communication(s) filed on 18 Ag</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloware closed in accordance with the practice under E</li> </ol>	action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access	vn from consideration.  r election requirement.	e Examiner.
Applicant may not request that any objection to the objection Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies</li> </ul>	s have been received. s have been received in Applica ity documents have been received in PCT Rule 17.2(a)).	ition No ved in this National Stage
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 4/18/2005.	4) Interview Summar Paper No(s)/Mail [5] Notice of Informal 6) Other:	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 and 11-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffits (US Patent No. 6,262,776 B1).

In considering claim 1, Griffits discloses all the claimed subject matter, note 1) the claimed a component that determines an initial audio input buffer level is met by the level of the audio buffer 212 at the start time or "due" time (Fig. 2, col. 12, lines 11-40), 2) the claimed a component that determines an amount of drift in the initial audio input buffer level and adjusts the clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold is met by the receipt of the low buffer condition message and after the current frame of video data 202 was played, the video rendered waits for a predefined period of time depending on how low the audio buffer 212 currently is, to fill more audio data 200 (Figs. 1 and 2, col. 15, lines 29-67), and 3) the claimed a component that measures a displacement of a video signal associated with the audio signal in response to the adjusting of the clocks and operates to negate the measured displacement of the video signal if the measured displacement reaches a second predetermined threshold is met by the video decoder filter 216 which is able to make such decisions (i.e., drop the frame or decode the frame) based upon

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messages or signals, preferably called quality messages, being sent from the video renderer filter 218 "downstream" of the video decoder 216, essentially, the video renderer filter 218 asynchronously notifies the video decoder filter 216 of how late the last frame was played and the video renderer filter 218 also helps to maintain synchronization with the played audio data 200 by adjusting the start or due time of the frame of video data 202 by a particular offset time (Fig.1 and 2, col. 12, line 28 to col. 13, line 60 and col. 16, lines 1-37).

In considering claim 2, the claimed wherein the initial audio input buffer level is stored in a memory is met by the audio buffer 212 (Figs. 1 and 2, col. 15, lines 29-67).

In considering claim 3, the claimed wherein a clock recovery control is disabled if the amount of drift reaches the first predetermined threshold is met by the slow video processing when the audio buffer level 212 is low and stop reading the audio data from the audio buffer level 212 (Figs. 1 and 2, col. 3, lines 52-67 and col. 15, lines 29-67).

In considering claim 4, the claimed wherein the audio signal and the video signal comprise a Motion Picture Experts Group (MPEG) signal is met by the MPEG signal (col. 10, lines 24-58).

In considering claim 5, the claimed wherein the component that measures the displacement of the video signal associated with the audio signal operates to negate the measured displacement of the video signal by re-initializing the measurement of the initial audio input buffer level is met by the receipt of the low buffer condition message and after the current frame of video data 202 was played, the video rendered waits for a

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predefined period of time depending on how low the audio buffer 212 currently is, to fill more audio data 200 (Figs. 1 and 2, col. 15, lines 29-67).

In considering claim 6, the claimed wherein the component that measures the displacement of the video signal associated with the audio signal operates to negate the measured displacement of the video signal by dropping a frame of the video signal is met by the video decoder filter 216 which is able to make such decisions (i.e., drop the frame or decode the frame) based upon messages or signals, preferably called quality messages, being sent from the video renderer filter 218 "downstream" of the video decoder 216, essentially, the video renderer filter 218 asynchronously notifies the video decoder filter 216 of how late the last frame was played to maintain synchronization with the played audio data 200 e(Fig.1 and 2, col. 12, line 28 to col. 13, line 60 and col. 16, lines 1-37).

Claim 11 is rejected for the same reason as discussed in claim 1 above.

Claims 12-14 are rejected for the same reason as discussed in claims 4-6, respectively.

Claims 15-17 are rejected for the same reason as discussed in claims 1-3, respectively.

Claims 18-19 are rejected for the same reason as discussed in claims 5-6, respectively.

In considering claim 20, the claimed wherein the recited acts are performed in the recited order is met by Fig. 10, col. 16, line 38 to col. 21, line 43.

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## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffits (US Patent No. 6,262,776 B1).

In considering claim 7, Griffits discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the first predetermined threshold is about +/- 10 ms. The capability of using the first predetermined threshold is about +/- 10 ms is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the first predetermined threshold is about +/- 10 ms into Griffits's system since it merely amount selecting available predetermined threshold values.

In considering claim 8, Griffits discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the second predetermined threshold is about +/- 25 ms. The capability of using the second predetermined threshold is about +/- 25 ms is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the second

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predetermined threshold is about +/- 25 ms into Griffits's system since it merely amount selecting available predetermined threshold values.

In considering claim 9, Griffits discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the system comprises a portion of a television set. The capability of using the system comprises a portion of a television set is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the system comprises a portion of a television set into Griffits's system since it merely amount selecting available television devices.

In considering claim 10, Griffits discloses all the limitations of the instant invention as discussed in claims 1 and 9 above, except for providing the claimed wherein the television set comprises a High Definition Television (HDTV) set. The capability of using the television set comprises a High Definition Television (HDTV) set is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the television set comprises a High Definition Television (HDTV) set into Griffits's system since it merely amount selecting available television devices.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Lundblad et al. (US Patent No. 6,906,755 B2) disclose method and apparatus for synchronizing audio and video data.

Sackstein et al. (US Patent No. 6,744,815 B1) disclose method for synchronizing audio and video streams.

Trinh et al. (US Patent No. 6,654,956 B1) disclose method, apparatus and computer program product for synchronizing presentation of digital video data with serving of digital video data.

Tan et al. (US Patent No. 5,959,684) disclose method and apparatus for audiovideo synchronizing.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT June 20, 2006 Trang U. Tran Examiner Art Unit 2622